## [Search Summary]

Results of searching in PCT (Full Text) for: crystal near (resonator or oscillator or vibrator) and first near (groove or grooves or incisions or incised or cut or cuts): 11 records Showing records 1 to 11 of 11:

Refine Search

crystal near (resonator or oscillator or vibrator) and fir

#### Title

- 1. (WO 2003/060606) RUBIDIUM TITANYL ARSENATE-SILVER GALLIUM SELENIDE TANDEM OPTICAL PARAMETRIC OSCILLATOR [Repub: 18.03.2004]
- 2. (WO 03/060606) RUBIDIUM TITANYL ARSENATE-SILVER GALLIUM SELENIDE TANDEM OPTICAL PARAMETRIC OSCILLATOR
- 3. (WO 02/082656) HIGH FREQUENCY VCXO STRUCTURE
- 4. (WO 01/82420) SYSTEM AND METHOD FOR PROVIDING COLLIMATED ELECTROMAGNETIC ENERGY IN THE 8-12 MICRON RANGE
- 5. (WO 01/81878) SYSTEM AND METHOD FOR SENSING ATMOSPHERIC CONTAMINANTS USING TRANSMITTER WITH DUAL OPTICAL PARAMETRIC OSCILLATORS AND RECEIVER FOR SAME
- 6. (WO 01/50555) MONOLITHIC SERIAL OPTICAL PARAMETRIC OSCILLATOR
- 7. (WO 01/22592) MATCHED CRYSTAL TEMPERATURE COMPENSATION DEVICE
- 8. (WO 01/06647) RESONATOR STRUCTURE AND A FILTER COMPRISING SUCH A **RESONATOR STRUCTURE**
- 9. (WO 99/28737) METHOD AND APPARATUS FOR CONTINUOUSLY MONITORING AN AQUEOUS FLOW TO DETECT AND QUANTIFY IONS
- 10. (WO 98/56050) ELECTRODE EDGE WAVE PATTERNS FOR PIEZOELECTRIC RESONATOR
- 11. (WO 98/56049) ELECTRODE EDGE WAVE PATTERNS FOR PIEZOELECTRIC **RESONATOR**

#### Search Summary

crystal NEAR resonator: 0 occurrences in 0 records.

crystal NEAR groove: 202 occurrences in 94 records.

(crystal NEAR resonator AND crystal NEAR groove): 0 records.

crystal NEAR oscillator: 7320 occurrences in 2071 records.

crystal NEAR groove: 202 occurrences in 94 records.

(crystal NEAR oscillator AND crystal NEAR groove): 0 records.

((crystal NEAR resonator AND crystal NEAR groove) OR (crystal NEAR oscillator

AND crystal NEAR groove)): 0 records.

crystal NEAR vibrator: 67 occurrences in 34 records.

crystal NEAR groove: 202 occurrences in 94 records.

(crystal NEAR vibrator AND crystal NEAR groove): 0 records.

(((crystal NEAR resonator AND crystal NEAR groove) OR (crystal NEAR oscillator

AND crystal NEAR groove)) OR (crystal NEAR vibrator AND crystal NEAR

groove)): 0 records.

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#### **RESULT LIST**

37 results found in the Worldwide database for:

resonator or vibrator or oscillator in the title AND plurality and grooves in the title or abstract (Results are sorted by date of upload in database)

#### PIEZOELECTRIC VIBRATOR AND EXTERNAL FORCE DETECTING SENSOR USING THE VIBRATOR

Inventor: KONAKA YOSHIHIRO Applicant: MURATA MANUFACTURING CO

EC: IPC: G01P15/09; G01P9/04; (+1)

Publication info: JP10054842 - 1998-02-24

#### 22 ULTRASONIC VIBRATOR AND ULTRASONIC MOTOR

Inventor: FUNAKUBO TOMOKI; TSUBATA TOSHIHARU; Applicant: OLYMPUS OPTICAL CO

(+2)

EC: IPC: H02N2/00; H01L41/083

Publication info: JP9009656 - 1997-01-10

#### 23 SOLID LASER OSCILLATOR

Inventor: TAKEUCHI KIYOSHI; YOSHIDA KUNIO; (+1) Applicant: SHIN MEIWA IND CO LTD; YOSHIDA KUNIO

EC: IPC: H01S3/042; H01S3/08; (+1)

Publication info: JP8250783 - 1996-09-27

#### 24 INTAKE RESONATOR MOUNTING STRUCTURE

Inventor: OOISHI SHIYUUJI Applicant: SUZUKI MOTOR CO

EC: TPC: F02M35/12

Publication info: JP7310614 - 1995-11-28

#### 25 Dielectric resonator apparatus including means for adjusting the degree of coupling

Inventor: TADA HITOSHI [JP]; KATO HIDEYUKI [JP]; Applicant: MURATA MANUFACTURING CO [JP]

(+5)

£C: H01P1/205C IPC: H01P1/205

Publication info: US5537082 - 1996-07-16

#### PIEZOELECTRIC VIBRATOR AND PIEZOELECTRIC VIBRATION **GYROSCOPE**

Inventor: TSURUGA KIKUO; ONO TOMEJI; (+1) Applicant: TOKIN CORP

IPC: G01C19/56

Publication info: JP4331312 - 1992-11-19

#### 27 GAS LASER OSCILLATOR

Inventor: SEKINE AKIYOSHI; MIZUNO JUN Applicant: ZEXEL CORP

TPC: H01S3/03; H01S3/097

Publication info: JP4304688 - 1992-10-28

#### 28 OUTER RESONATOR TYPE SEMICONDUCTOR LASER AND MANUFACTURE THEREOF

Inventor: SAITO HIDEHO; IMAMURA YOSHIHIRO Applicant: NIPPON TELEGRAPH & TELEPHONE

1PC: H01S3/18

Publication info: JP1183875 - 1989-07-21

#### 29 ULTRASONIC WAVE VIBRATOR

Inventor: MISHIRO SHOJI Applicant: TAGA DENKI KK

EC: H01L41/09E IPC: B06B1/06; H02N2/00; (+1)

Publication info: JP62171473 - 1987-07-28

#### 30 GAS LASER OSCILLATOR

Inventor: ITO HIROSHI; ISHIDA SHUICHI; (+1) Applicant: TOKYO SHIBAURA ELECTRIC CO

EC: H01S3/038 ೫೬೦: H01S3/02

#### **RESULT LIST**

O results found in the Worldwide database for: **resonator or vibrator or oscillator** in the title AND **plurality and incisions** in the title or abstract (Results are sorted by date of upload in database)

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Searching PCT (Full Text)...

## [Search Summary]

Results of searching in PCT (Full Text) for:

crystal near (resonator or oscillator or vibrator) and plurality near (groove or grooves or incisions or incised or cut or cuts ): 0 records

Refine Search | crystal near (resonator or oscillator or vibrator) and pl

No records matching your query found in PCT (Full Text)

## **Search Summary**

crystal NEAR resonator: 0 occurrences in 0 records.

crystal NEAR groove: 202 occurrences in 94 records.

(crystal NEAR resonator AND crystal NEAR groove): 0 records.

crystal NEAR oscillator: 7320 occurrences in 2071 records.

crystal NEAR groove: 202 occurrences in 94 records.

(crystal NEAR oscillator AND crystal NEAR groove): 0 records.

((crystal NEAR resonator AND crystal NEAR groove) OR (crystal NEAR oscillator

AND crystal NEAR groove)): 0 records.

crystal NEAR vibrator: 67 occurrences in 34 records.

crystal NEAR groove: 202 occurrences in 94 records.

(crystal NEAR vibrator AND crystal NEAR groove): 0 records.

(((crystal NEAR resonator AND crystal NEAR groove) OR (crystal NEAR oscillator

AND crystal NEAR groove)) OR (crystal NEAR vibrator AND crystal NEAR groove)): 0 records.

plurality NEAR groove: 3528 occurrences in 1546 records.

((((crystal NEAR resonator AND crystal NEAR groove) OR (crystal NEAR oscillator

AND crystal NEAR groove)) OR (crystal NEAR vibrator AND crystal NEAR

groove)) AND plurality NEAR groove): 0 records.

crystal NEAR resonator: 0 occurrences in 0 records.

crystal NEAR grooves: 197 occurrences in 97 records.

(crystal NEAR resonator AND crystal NEAR grooves): 0 records.

crystal NEAR oscillator: 7320 occurrences in 2071 records.

crystal NEAR grooves: 197 occurrences in 97 records.

(crystal NEAR oscillator AND crystal NEAR grooves): 2 records.

((crystal NEAR resonator AND crystal NEAR grooves) OR (crystal NEAR oscillator

AND crystal NEAR grooves)): 2 records.

crystal NEAR vibrator: 67 occurrences in 34 records.

crystal NEAR grooves: 197 occurrences in 97 records.

(crystal NEAR vibrator AND crystal NEAR grooves): 0 records.

(((crystal NEAR resonator AND crystal NEAR grooves) OR (crystal NEAR oscillator

AND crystal NEAR grooves)) OR (crystal NEAR vibrator AND crystal NEAR

grooves)): 2 records.

plurality NEAR grooves: 12917 occurrences in 4231 records.

((((crystal NEAR resonator AND crystal NEAR grooves) OR (crystal NEAR oscillator



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Search Query :

(( (plurality <or> first) <near> (groove

Query: ( ((plurality <or> first) <near> (grooves <or> groove)) <AND> ( ((resonator <or> oscillator <or> vibrator) ) <in> title ) <AND> ( ((crystal <or> quartz <or> AT) ) <in> abstract ) <AND> ( ((Y) ) <in> license ) <AND> ((EP)) <in> invt\_country ) )

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Query:

( (plurality <or> first) <near> (grooves)

Query: ((plurality <or> first) <near> (grooves <or> groove)) <AND>
(((resonator <or> oscillator <or> vibrator)) <in> title) <AND> (((crystal <or> quartz <or> AT)) <in> abstract) <AND> (((Y)) <in> license) <AND>
(((CA)) <in> invt\_country) <AND> (ISD>=01/01 /1999) <AND>
(ISD<=12/31 /1999)

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	Туре	L #	Hits	Search Text	DBs
1	BRS	L1	162	manufactur\$3 same (resonator or oscillator or vibrator) and (plurality or first) adj3 (groove\$1 or incisi\$4)	USPAT
2	BRS	L2		manufactur\$3 same (resonators or oscillators or vibrators) and (plurality or first) adj3 (groove\$1 or incisi\$4)	USPAT
3	BRS	L3		manufactur\$3 same (resonator\$1 or oscillator\$1 or vibrator\$1) and (plurality or first)	US- PGPUB; USOCR; EPO; JPO; DERWEN T; IBM_TD B